Claims:

- 1. A composite structural material comprising:
 - a highly oriented polymer produced by a drawing process; and,
- a particulate filler non-adhering with said highly oriented polymer capable of reacting with a fluid to form a cementitious bond;

said filler being present in an amount, and dispersed to a degree, sufficient to form interpenetrating polymer and cementitious networks in said composite material upon reaction of said filler with said fluid.

2. The composite material as claimed in clam 1 wherein:

said particulate filler is a member selected from the group consisting of silicate cements and gypsum.

3. The composite material of claim 2 wherein:

said particulate filler includes at least one of Portland cement and calcium sulphate hemi-hydrate.

- 4. The composite material of claim 3 wherein said particulate filler further includes a non-reactive component.
- 5. The composite material of claim 4 wherein said non-reactive component is wood sawdust.
- 6. The composite material of claim 1 wherein the drawing process is a die drawing process.
- 7. The composite material of claim 1 wherein the drawing process is a free drawing process.
- 8. The composite material of claim 3 wherein the weight ratio of Portland cement to oriented polymer is between 37.5 wt.% and 67.5 wt.%.

AMENDED CLAIMS

[Received by the International Bureau on 28 November 2003 (23.11.03): original claim 9 replaced by amended claim 9]

9. The composite material of claim 3 wherein the weight ratio of Portland cement to oriented polymer is 67.5 wt.%.

AMENDED SHEET (ARTICLE 19)

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